

Please use English for a U.S. application 09/530,219

SEQUENCE LISTING

SEQUENZPROTOKOLL

Does Not Comply
Corrected Diskette Needed

W/ED

GENERAL INFORMATION:

(I) ANGEMEINE ANGABEN:

(1) ANMELDER: APPLICANT: I move w/ - all responses must be on same
line as heading

(A) NAME: Deutsches Krebsforschungszentrum
(B) STRASSE: Im Neuenheimer Feld 280
(C) ORT: Heidelberg
(D) LAND: Deutschland
(E) POSTLEITZAHL: 69120

(II) TITLE OF INVENTION:

(II) BEzeichnung der Erfindung: Inhibitorprotein des akt-Signalwegs

(III) ANZAHL DER SEQUENZEN: 7

(IV) COMPUTER READABLE FORM:

COMPUTER-LESBARE FASSUNG:

(A) MEDIUM TYPE: Floppy disk
(B) COMPUTER: IBM PC compatible
(C) OPERATING SYSTEM: PC-DOS/MS-DOS
(D) SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPA)

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE:
(B) STREET:
(C) CITY:
(D) STATE:
(E) COUNTRY:
(F) ZIP:

(V) PRIOR APPLICATION DATA:

(A) ANMELDENUMMER: DE 19747418.7

(B) FILING DATE:

(2) ANGABEN ZU SEQ ID NO: 1:

(i) SEQUENZKENNZEICHEN:

(A) Länge: 1297 Basenpaare
(B) ART: Nucleotid
(C) STRANGFORM: Einzelstrang
(D) TOPOLOGIE: Linear

(ii) ART DES MOLEKÜLS: Genom-DNA

(iii) HYPOTHETISCH: NEIN

(iv) ANTISENSE: NEIN

(xi) SEQUENZBESCHREIBUNG: SEQ ID NO: 1:

(v) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER:
(B) FILING DATE:

add these
mandatory
headers for
a U.S.
case

FYI: EPO

format is
invalid for a
U.S. case

See attached sample sequence
Listing for valid format

- (3) Computer: Apple Macintosh;
- (i) Operating System: Macintosh;
- (ii) Macintosh File Type: text with line termination
- (iii) Line Terminator: Pre-defined by text type file;
- (iv) Pagination: Pre-defined by text type file;
- (v) End-of-file: Pre-defined by text type file;
- (vi) Media: (A) Diskett—3.50 inch, 400 Kb storage;
 (B) Diskette—3.50 inch, 800 Kb storage;
 (C) Diskette—3.50 inch, 1.4 Mb storage;
- (vii) Print Command: Use PRINT command from any Macintosh Application that processes text files, such as MacWrite or Teach Text;
- (4) Magnetic tape: 0.5 inch, up to 2400 feet:
 - (i) Density: 1600 or 8250 bits per inch, 9 track;
 - (ii) Format: raw, unblocked;
 - (iii) Line Terminator: ASCII Carriage Return plus optional ASCII Line Feed;
 - (iv) Pagination: ASCII Form Feed or Series of Line Terminators;
 - (v) Print Command (Unix shell version given here as sample response—mt/dev/rmt0; lpr/dev/rmt0);
 - (g) Computer readable forms that are submitted to the Office will not be returned to the applicant.
 - (h) All computer readable forms shall have a label permanently affixed thereto on which has been hand printed or typed, a description of the format of the computer readable form as well as the name of the applicant, the title of the invention, the date on which the data were recorded on the computer readable form and the name and type of computer and operating system which generated the files on the computer readable form. If all of this information cannot be printed on a label affixed to the computer readable form, by reason of size or otherwise, the label shall include the name of the applicant and the title of the invention and a reference number, and the additional information may be provided on a container for the computer readable form with the name of the applicant, the title of the invention, the reference number and the additional information affixed to the container. If the computer readable form is submitted after the date of filing

under 35 U.S.C. 111, after the date of entry in the national stage under 35 U.S.C. 371 or after the time of filing, in the United States Receiving Office, an international application under the PCT, the labels mentioned herein must also include the date of the application and the application number, including series code and serial number.

§ 1.825 Amendments to or replacement of sequence listing and computer readable copy thereof.

(a) Any amendment to the paper copy of the "Sequence Listing" (§ 1.821(c)) must be made by the submission of substitute sheets. Amendments must be accompanied by a statement that indicates support for the amendment in the application, as filed, and a statement that the substitute sheets include no new matter. Such a statement must be a verified statement if made by a person not registered to practice before the Office.

(b) Any amendment to the paper copy of the "Sequence Listing," in accordance with paragraph (a) of this section, must be accompanied by a substitute copy of the computer readable form (§ 1.821(e)) including all previously submitted data with the amendment incorporated therein, accompanied by a statement that the copy in computer readable form is the same as the substitute copy of the "Sequence Listing." Such a statement must be a verified statement if made by a person not registered to practice before the Office.

(c) Any appropriate amendments to the "Sequence Listing" in a patent, e.g., by reason of reissue or certificate of correction, must comply with the requirements of paragraphs (a) and (b) of this section.

(d) If, upon receipt, the computer readable form is found to be damaged or unreadable, applicant must provide, within such time as set by the Commissioner, a substitute copy of the data in computer readable form accompanied by a statement that the substitute data is identical to that originally filed. Such a statement must be a verified statement if made by a person not registered to practice before the Office.

Appendix A—Sample Sequence Listing
(1) GENERAL INFORMATION:

- (i) APPLICANT: Doe, Joan X. Doe, John Q
- (ii) TITLE OF INVENTION: Isolation and Characterization of a Gene Encoding a Protease from *Paramecium* sp.
- (iii) NUMBER OF SEQUENCES: 2
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Smith and Jones
 - (B) STREET: 123 Main Street
 - (C) CITY: Smalltown
 - (D) STATE: Anystate
 - (E) COUNTRY: USA
 - (F) ZIP: 12345
- (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Diskette, 3.50 inch, 800 Kb storage
 - (B) COMPUTER: Apple Macintosh
 - (C) OPERATING SYSTEM: Macintosh 5.0
 - (D) SOFTWARE: MacWrite
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: 09/999,999
 - (B) FILING DATE: 28-FEB-1989
 - (C) CLASSIFICATION: 999/99
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: PCT/US88/99999
 - (B) FILING DATE: 01-MAR-1988
- (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Smith, John A.
 - (B) REGISTRATION NUMBER: 00001
 - (C) REFERENCE/DOCKET NUMBER: 01-0001
- (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: (809) 999-0001
 - (B) TELEFAX: (809) 999-0002
- (2) INFORMATION FOR SEQ ID NO: 1:
- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 954 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: genomic DNA
- (iii) HYPOTHETICAL: yes
- (iv) ANTI-SENSE: no
- (vi) ORIGIN SOURCE:
 - (A) ORGANISM: *Paramecium* sp
 - (C) INDIVIDUAL/ISOLATE: XYZ2
 - (G) CELL TYPE: unicellular organism
- (vii) IMMEDIATE SOURCE:
 - (A) LIBRARY: genomic
 - (B) CLONE: Para-XYZ2/38
- (x) PUBLICATION INFORMATION:
 - (A) AUTHORS: Doe, Joan X. Doe, John Q
 - (B) TITLE: Isolation and Characterization of a Gene Encoding a Protease from *Paramecium* sp.
 - (C) JOURNAL: Fictional Genes
 - (D) VOLUME: I
 - (E) ISSUE: 1
 - (F) PAGES: 1-20
 - (G) DATE: 02-MAR-1988
 - (K) RELEVANT RESIDUES IN SEQ ID NO: 1: FROM 1 TO 954

BILLING CODE 3510-16-04

Please consult for valid format.

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

ATCGGGATAG TACTGGTCAA GACCGGTGGA CACCGGTAA CCCCGGTTAA GTACCGGTTA	60
TAGGCCATT CAGGCCAAAT GTGCCCAACT ACGCCAATTG TTTTGCCAAC GGCCAACGTT	120
ACGTTCGTAC GCACGTATGT ACCTAGGTAC TTACGGACGT GACTACGGAC ACTTCCGTAC	180
GTACGTACGT TTACGTACCC ATCCCAACGT AACCACAGTG TGGTCGCAGT GTCCCAGTGT	240
ACACAGACTG CCAGACATTC TTCACAGACA CCCC ATG ACA CCA CCT GAA CGT CTC	295
Met Thr Pro Pro Glu Arg Leu	
	-30
TTC CTC CCA AGG GTG TGT GGC ACC ACC CTA CAC CTC CTC CTT CTG GGG	343
Phe Leu Pro Arg Val Cys Gly Thr Thr Leu His Leu Leu Leu Gly	
-25	-20
	-15
CTG CTG CTG GTT CTG CTG CCT GGG GCC CAT GTGAGGCAGC AGGAGAATGG	393
Leu Leu Leu Val Leu Leu Pro Gly Ala His	
-10	-5
GGTGGCTCAG CCAAACCTTG AGCCCTAGAG CCCCCCTCAA CTCTGTTCTC CTAG GGG	450
Gly	
CTC ATG CAT CTT GCC CAC AGC AAC CTC AAA CCT GCT GCT CAC CTC ATT	498
Leu Met His Leu Ala His Ser Asn Leu Lys Pro Ala Ala His Leu Ile	
1	5
	10
	15
GTAAACATCC ACCTGACCTC CCAGACATGT CCCCACCAGC TCTCCTCCTA CCCCTGCCTC	558
AGGAACCAA GCATCCACCC CTCTCCCCA ACTTCCCCA CGCTAAAAAA AACAGAGGGA	618
GCCCACTCCT ATGCCTCCCC CTGCCATCCC CCAGGAACTC AGTTGTTCAG TGCCCACCTC	678
TAC CCC AGC AAG CAG AAC TCA CTG CTC TGG AGA GCA AAC ACG GAC CGT	726
Tyr Pro Ser Lys Gln Asn Ser Leu Leu Trp Arg Ala Asn Thr Asp Arg	
20	25
	30
GCC TTC CTC CAG GAT GGT TTC TCC TTG AGC AAC AAT TCT CTC CTG GTC	774
Ala Phe Leu Gln Asp Gly Phe Ser Leu Ser Asn Asn Ser Leu Leu Val	
35	40
	45
	-
TAGAAAAAAAT AATTGATTTC AAGACCTTCT CCCCATTCTG CCTCCATTCT GACCATTCA	834
GGGGTGTCA CCACCTCTCC TTTGGCCATT CCAACAGCTC AAGTCTTCCC TGATCAAGTC	894
ACCGGAGCTT TCAAAGAAGG AATTCTAGGC ATCCCAGGGG ACCCACACCT CCCTGAACCA	954

(2) INFORMATION FOR SEQ ID NO: 2:

(I) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 82 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear
(II) MOLECULE TYPE: protein
(IX) FEATURE:
(A) NAME/KEY: signal sequence
(B) LOCATION: -34 to -1

(C) IDENTIFICATION METHOD: similarity to other signal sequences, hydrophobic
(D) OTHER INFORMATION: expresses protease
(X) PUBLICATION INFORMATION:
(A) AUTHORS: Doe, Joan X, Doe, John Q
(B) TITLE: Isolation and Characterization of a Gene Encoding a Protease from *Paramecium* sp.

(C) JOURNAL: Fictional Genes
(D) VOLUME: I
(E) ISSUE: 1
(F) PAGES: 1-20
(G) DATE: 02-MAR-1988
(K) RELEVANT RESIDUES IN SEQ ID NO: 2: FROM -34 TO 48
BILLING CODE 2610-16-M

Here's where sequence 2 starts (after the sequence data of SEQ ID NO:1:)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Met Thr Pro Pro Glu Arg Leu Phe Leu Pro Arg Val Cys Gly Thr Thr
-30 -25 -20

Leu His Leu Leu Leu Leu Gly Leu Leu Leu Val Leu Leu Pro Gly Ala
-15 -10 -5

His Gly Leu Met His Leu Ala His Ser Asn Leu Lys Pro Ala Ala His
1 5 10

Leu Ile Tyr Pro Ser Lys Gln Asn Ser Leu Leu Trp Arg Ala Asn Thr
15 20 25 30

Asp Arg Ala Phe Leu Gln Asp Gly Phe Ser Leu Ser Asn Asn Ser Leu
35 40 45

Leu Val

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